

Information technology in a global society
Higher level
Paper 3

Wednesday 7 November 2018 (morning)

Candidate session number

1 hour 15 minutes

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Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all questions.
- Answers must be written within the answer boxes provided.
- The maximum mark for this examination paper is **[30 marks]**.



Answer **all** questions. Answers must be written within the answer boxes provided.

Refer to the *A Doll Called Alicia* case study **and** to your own related research in responding to the following questions.

1. (a) Identify **two** pieces of information that Alicia could send to the cloud. [2]

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- (b) Identify **two** ways parents would be able to access data about their child's interactions with Alicia. [2]

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2. (a) Explain **one** method that could be used to ensure the data stored on Alicia cannot be accessed by unauthorized persons.

[2]

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- (b) Mark Danbung has advised the team that Alicia may pause for a few seconds before giving an appropriate response to a child's question. Explain why this might occur.

[4]

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- Discuss whether *MAGS*, the parent or another person or organization should be accountable. [8]





4. Artificial intelligence (AI) toys such as Alicia are becoming more sophisticated and human-like. With reference to your independent research, to what extent is it acceptable for AI toys to replace the friendships of other children?

[12]





